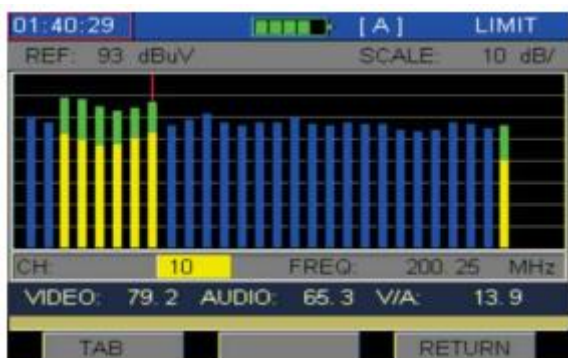


MEDIDOR DE CAMPO 1GHZ / RETORNO

DEVISER



DESCRIPCION

Medidor y Analizador + QAM
 Medidor óptico + Fuente de luz

MODELO

DS2460Q

CODIGO WT

4241519

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1 - CARACTERISTICAS

- Herramienta integral para la instalación y mantenimiento de redes de cable
- Análisis de espectro rápido, 5 ~ 1220 MHz
- 5 ~ 1052MHz (TV analógica), 46 ~ 1052MHz (TV digital)
- Las medidas de TV digital incluyen: potencia media, MER, BER, BER Estadísticas, Constelación
- Las medidas de TV analógica incluyen: Nivel, V / A, HUM, C / N
- Genera automáticamente y guarda hasta 20 canales personalizados planes de una caída de cable
- La prueba automática con límites de pasa / falla acelera las pruebas y simplifica interpretación de resultados
- Software de gestión Toolbox basado en el cliente para configuración de la unidad
- Puerto USB Micro 2.0 para transferencia de datos a PC
- Puerto Ethernet para función Ping
- Medición de potencia óptica y VFL (Visual Ubicación de la falla) disponible por opción

Five Multi-user Defined Channel Plans

Several technicians or contractors work with more than one HFC network and it is very practical to have different channel lineups to choose from. The unit allows up to five (5) different user defined channel plans. Analog, digital and custom frequencies can be configured in the unit by using the automated learned channel plan from an RF drop or by downloading from the PC file using the Toolbox software. The user can select up to 12 frequencies in each of the 5 user defined plans and assign them to a favorite/tilt channel plan.

QAM Analysis and Channel Measurements

MER plus PRE & Post BER measurements with a several time slots (5 minutes, 15 minutes, 30 minutes, 60 minutes, 2 hours, 6 hours, 12 hours, 24 hours, and 48 hours) can be analyzed with the DS2400. This includes viewing of the constellation diagram. The unit is compatible with 16/32/64/128/256 QAM modulation and provides power measurements feature of QPSK and COFDM digital carriers.

Spectrum Analysis and Measurements

The DS2400Q has a spectrum mode, which allows viewing of the full spectrum. For troubleshooting reverse path challenges, the unit can set to display 5 to 65 MHz frequency spans providing an additional feature to the technician when dealing with upstream data signals. The marker function is included with the spectrum mode and transient anomalies can be captured with the max hold feature.

Full Spectrum Scans with Marker Feature

The DS2400Q supports 160 channels scanning function allowing testing the flatness and the amplitude of the HFC network quickly. With the help of the marker, the technician can quickly determine the anomalies related to mismatches caused by poor grounding or damaged transmission lines.

HUM Network Measurement

The Hum measurement helps the technician identify and troubleshoot anomalies which may result from defective capacitors, faulty line splitters, or couplers due to lightning or excessive current overloads. Both 60 & 120 Hz tests are performed w/400Hz LPF measurements.

Auto Diagnostic User-defined Limit Test (Pass/Fail)

The auto test simplifies the test by displaying pass/fail results. The pass/fail limit can be set for Power levels, MER, PRE-BER, POST-BER, Spectrum Analysis, Tilt, and HUM measurements. With its simple save function, the technician will no longer be required to manually take note of the results. As a result, more installations or service calls may be performed in a day. Additionally, every measurement is recorded; there is no room for errors. This forces performance accountability of each location, thus avoiding churn, which may be costly to the organization.

User-defined Tests

The five (5) channel plans and the ability to group various tests, which can be performed with a simple icon selection, enables the technician to be very efficient and productive. The tests include Level, Tilt, Spectrum Analysis, HUM and Performance related Test Limits for both analog and digital carriers.

Once the test data results are stored in the instrument, they can be recalled, viewed, and analyzed.

File Management - Test Data Storage

Several test data can be saved and stored as analog carriers or frequencies, QAM carriers or digital frequencies, channel scan, tilt, frequency spectrum measurement and HUM.

The results are saved in the File Directory menu, with name of the file, time and date. These data records may be uploaded to a PC with the Toolbox software for reports, analysis, and printing.

Voltage Measurement - Battery and Charging

The unit can measure battery voltage, trunk & distribution line voltage of the cable system, identifying AC or DC automatically. With the intelligent power management system, the battery provides approximately 5 hours of continued operations when fully charged.

Standard Accessories

The DS2400Q includes the following accessories: Protector rubber bumper, carrying bag with shoulder strap, data cable (serial to USB), two (2) "F" connectors, AC/DC power adaptor/charger, Toolbox software and user's manual.

2 - ESPECIFICACIONES

Normal Spectrum Analysis	
Frequency Range	45 MHz ~ 1052 MHz
Span	2.5 MHz; 6.25 MHz; 12.5 MHz; 25 MHz; 62.5 MHz; Full Span
Fast Spectrum Analysis	
Frequency Range	5MHz ~ 1220MHz
Span	12.5MHz, 25MHz, 62.5MHz, Full Span
Return path Spectrum Analysis	
Frequency Range	5~210MHz
Channel Scan	
Number of Channels	160 channels max
Scale	1,2,5,10dB/div
Zoom	1X,2X,3X,4X,5X five levels
Analog TV Measurement	
Supported Standards	PAL, NTSC and FM Radio (Single Frequency)
Level Measurement	Range: -30dBmV to +60dBmV; Accuracy: ±2dB; Resolution: 0.1dB
Frequency	Range: 5M-1052M ; Accuracy: ±50ppm; Resolution: 10KHz
Resolution Bandwidth	280KHz
C/N	>50dB
HUM Measurement Range	2% to 5%
Digital TV	
Power Level	Range: -30dBmV to +60dBmV; Accuracy: ±2dB; Resolution: 0.1dB
Frequency	Range: 46MHz to 1052MHz; Accuracy: ±2dB; Resolution: 0.1dB
Supported Standards	ITU-T J.83 Annex A, B and C
QAM Demodulation Type	Annex A: QAM 16/32/64/128/256, Annex B&C: QAM64/256
Interleave Depth	128x1~128x4[J.83B];12x17[J.83A/C]
Symbol Rate Range	4MS/sec to 7MS/sec
MER	41dB; Accuracy±2dB
BER	1E-3 to 1E-9
Constellation Display Mode	64/256 QAM with zoom capability
Line Voltage Measurement	
Range	0V to 100V (AC/DC) with accuracy ±2V
Optical Power Measurement	
Accuracy	±0.23dB(±5%)
Detector Type	InGaAsφ300μm
Range	-50dBm ~ +27dBm
Linearity	0.07dB/10dB
Resolution	0.01dBm, mW, μW, nW
Wavelength	850 nm, 980 nm, 1300 nm, 1310nm, 1490 nm, 1550nm, 1610 nm
Interface	FC\SC\ST Universal Connector Interface Adapter
VFL (Visual Fault Location)	
Output Power	10mW
Output Wavelength	650±10nm
Safety Standard	IEC 60825-1: 2007
Interface	FC/PC
Miscellaneous	
RF Input	75Ω
USB	USB Micro B 2.0
Ethernet	10/100M
Display	2.8" 320x240 TFT LCD
AC/DC Adapter	AC 100V to 240V 50-60Hz ,DC 1.5V/0.9A
Battery	7.4V 2.5Ah Lithium Battery
Charge Time/ Working Time	5 hours / >5hours
Dimension (W×H×L)	200mm × 106mm×54mm (7.9" x 4.2" x 2.1")
Weight	About 600 grams (1.3 lbs)
Work/ Storage Temperature	-10 ~ +40°C/-20 ~ +70°C